IGNI-BOX
FOR THE PROFESSIONAL INSTALLER

Technical Specifications

Voltage supply range : 10-16 VDC
Current usage : <1 mA (passive)/2mA-3A (active)

Activation voltage
Active : > +10VDC
Passive : < +10VDC

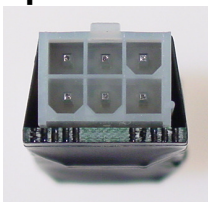
Maximum current supplied by ignition:
1A. Active when High.

Measurements pr. Second:>3500

Size L x W x H: 75 x 20 x 14 mm

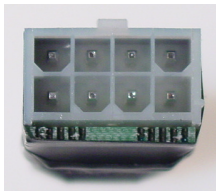
Connector configurations

Input connector



+12	NC	1
-	2	3

Output connector



1	IGN	NC	+12
3	2	NC	-

Made in Denmark by
Kram Telecom A/S

See our complete Radio Mute program on our website www.kram.dk

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Product Description
69600 IGNI-BOX and IGNI-BOX adaptor

The IGNI-BOX makes the need for an ignition wire, when installing aftermarket car accessories, redundant.

Many new cars do not have an easy accessible switched ignition wire due to the use of Bus based vehicle control networks like CAN-bus. This has spawned the need for a fast and versatile Ignition substitute.

For this reason we have invented the IGNI-BOX. This small microprocessor controlled unit makes an artificial switched Ignition based on the noise levels on the constant 12v wire. To make the needed calculations the IGNI-BOX makes up to 4000 measurements pr. second.

The IGNI-BOX will switch on the ignition signal when the engine is turned on. On some car models it will even turn on the ignition signal as soon as the key is inserted into the ignition barrel and that way being very similar to the normal ignition functionality in older cars.

A normal IGNI-BOX item number consists of two items. The 1st item is the IGNI-BOX and the 2nd item is the IGNI-BOX adaptor. The IGNI-BOX adaptor makes the installation plug and play when installing a Kram Telecom cable set. Some IGNI-BOX adaptors even exists for OEM Carkit cablesets. But all the IGNI-BOX really needs in order to make an artificial ignition signal is a connection to the constant 12v and the ground wire. The installation is that simple.

EN950

IGNI-BOX
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Installation description
IGNI-BOX and IGNI-BOX adaptor.

Needed items:
A. IGNI-BOX. **B.** IGNI-BOX adaptor. **C.** Cable set. **D.** Carkit-adaptor.

Installation:
Installation steps 1 to 7 must be followed as described to ensure correct function of the IGNI-BOX.

1. **Prepare the installation of the IGNI-BOX.** Install the cable set ***C***, Refer to the instruction delivered with the Cable set. If connected disconnect the Carkit-adaptor ***D*** from the Cable set ***C.*** Connect the IGNI-BOX adaptor ***B*** to the 8 pin connector on the IGNI-BOX ***A***.
   NOTE: Do NOT connect the IGNI-BOX to the cable set.

2. **Start the engine.**

3. **Wait for warning lights to turn off** and let engine run for approximately 10 sec.

4. **Stop the engine, remove the key** and wait approximately 10 sec.

5. **Connect the IGNI-BOX.** When the IGNI-BOX is connected the ignition goes on (Ignition wire goes high) and the carkit should start-up.

6. **Please wait while the IGNI-BOX programs itself.** When the programming phase is complete, after approximately 30 sec, the ignition will go off (Ignition wire goes low) and the carkit should shut down. **NOTE:** Please avoid interfering with the cars wiring loom or electronics while the IGNI-BOX is programming itself.

7. **Please make a function check.** The blue artificial ignition wire in the 8 pin output connector should source 12v within 5-30 sec. after the engine is started. And should source 0v 5-30 sec. after the engine is turned off. In some car models the IGNI-BOX will also be able to source 12v if the key is in the ignition but the engine is off. **NOTE:** If the IGNI-BOX does not work as described please disconnect the IGNI-BOX and repeat installation from point 2.

Note: If the car is equipped with accessories like "Follow me home light" or other systems that might be active when the car is parked. Please make sure these systems are active when installing the IGNI-BOX.

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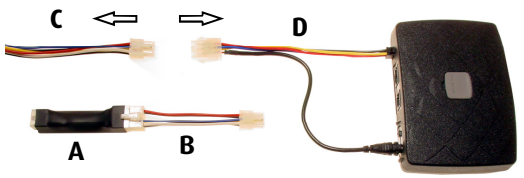
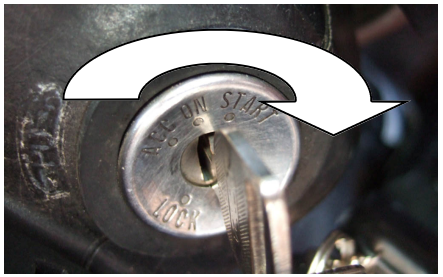
69600 for 2.G Drive & Talk / Interface leads

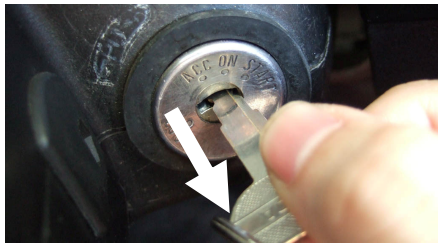


Step 1.
Prepare the installation of the IGNI-BOX. **Do NOT connect the IGNIBOX.**

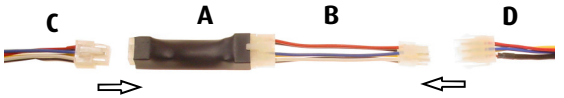


Step 2.
Start the car.

Step 3.
Wait for warning lights to turn off and let the engine run for approximately 10 sec.



Step 4.
Turn of the car and pull out the key and wait approximately 10 sec.



Step 5.
Connect the IGNI-BOX and wait approximately 30 sec.